

SLC (University of Delhi) Shyam Lal College



NAACA++

Faculty Profile

Title Dr.	Fir	st Name	Ajay Shan	kar I	Last Name		Bangwal	Photograph		
Designation		Assistant	t Professor						7	
Department		Physics								
Address		BK1/154	, BK1 Bloc	k, Shalii	mar Bag, Delhi					
Email		abangwal@shyamlal.du.ac.in								
Web-Page										
Educational Q	<u>ualifica</u>	tion			1					
Degree			Subject			Iniversity/ Co			Year	
B.Sc.			hysics, Chemistry, Mathematics		Hemvati Nand Srinagar Garh	_	a Garhwal U	Jniversity,	2014	
M.Sc.			Physics	Physics Her		Hemvati Nandan Bahuguna Garhwal University, Srinagar Garhwal				
Ph.D.			Physics		Indian Institut	te of Technol	Varanasi	2022		
			-							
Experience										
		Name of a niversity/Control itute/Organ	ollege/		signation & Status anent/Ad-hoc)	Fro	om	То	Effect ive time period	
Teaching		Lal Collegisity of Del		P	ermanent	August 202	3	Till Date	porte at	
Research/ Corporate Consultancy										
Teaching-Lear	rning P	rocess (Ac	ademic Yea	r 2022-	23 Onwards)					
Are You using ICT (LMS, E Resources)?	3	100035 (110	indentife 100		please give the	details below	v:			
1100001100).		Name Total Numbers					otal Numbers			
E-Resources										
Techniques and Platforms	1									
								-		

Career Advancement and Contribution to College Corporate Life (2022-23 Onwards)									
		Name of the Committe Society/ Cell Designation		Desig	nation	Fr	om .	Го	
Conve	enor/Member	Computer and I.T. Committee		Member D		D	ec. 2023	Γill Date	-
of Committees		Time Table Committee		Member				Fill Date	-
Any C	Other								
Admi	nistrative								
_	nsibility								
(Bursa	•								
	inator,								
	intendent etc.) of Interest/Spe	cialisation							
S.No	or interesuspe								1
5.110		Area	is of Interest	t/ Specia	alisatio	n			
1	Material Science	ce							
2	Fuel cells, Elec	etrocatalysis							
	cts Taught			1			T		
S.No		Subject		S.No.		Subject			
1.	Mechanics								
2.	Solid-State Phy								=
3.	Physics of Eart								
4.	Science and Sci		C C •	D 1	N/T 1/T	1' (7•4 4• T I		
Public	cations: Citatio	n Index in Scopus/Web	of Science (or Pub	Med/ 11	naian (Itation Ind	ex	
7	Fitle of Paper	Name of the Author	Title of the Journal	Year of Public ation	Citatio n Index	h- Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self-citations	Impac t factor,
	ll PrBaCo ₂ O _{6-δ} : ulk and surface for synthesis	Ajay S. Bangwal, Pardeep K. Jha, Pawan K. Dubey, Manish K. Singh, A. S. K. Sinha, Vasant Sathe, Priyanka A. Jha and Prabhakar Singh	Phys.Chem . Chem. Phys.	2019	5.9	272	Indian Institute of Technology (BHU), Varanasi	13	3.676
Oxyger Reaction double Pr _{1+x} Ba cathode	sitional effect on n Reduction on in Pr excess perovskite $a_{1-x}Co_2O_{6-\delta}$ e materials	Ajay S. Bangwal, Pardeep K. Jha, Manisha Chauhan, Shikha Singh, A S K Sinha, Priyanka A. Jha and Prabhakar Singh	Int. J. Hydrogen Energy	2020	12.1	248	Indian Institute of Technology (BHU), Varanasi	08	7.67
	ic behavior of Pr ₁ - Co ₂ O _{6-δ} in alkaline n	<u>Ajay S. Bangwal,</u> Manisha Chauhan and Prabhakar Singh	Int. J. Hydrogen Energy	2022	12.1	248	Indian Institute of Technology (BHU), Varanasi	02	7.67
	temperature tion mechanism	Dinesh Kumar , <u>Ajay S.</u> <u>Bangwal</u> , Saurabh Singh,	Physica B	2020	4.8	124	Indian Institute of	05	2.88

of samarium ferrite substituted sodium niobate ceramics	Priyanka A. Jha and Prabhakar Singh					Technology (BHU), Varanasi		
Microstructural dependent oxygen reduction reaction in Ruddlesden Popper perovskite (SmSr)NiO _{4-δ}	Manisha Chauhan, Pardeep K. Jha, Ajay S. Bangwal , Priyanka A. Jha and Prabhakar Singh	Phys.Chem . Chem. Phys.	2020	5.9	272	Indian Institute of Technology (BHU), Varanasi	06	3.676
Elcetrochemical performance of A-site substitited SmSrNiO _{4-δ} for energy storage application	Manisha Chauhan, <u>Ajay S.</u> <u>Bangwal</u> , Prabhakar Singh	Int. J. Hydrogen Energy	2023	12.1	248	Indian Institute of Technology (BHU), Varanasi	01	7.139
Electrochemical behavior of nickel oxide nanoelectrocatalyst in diverse electrolytic environments and its application as an effective electrode for supercapacitors	Manisha Chauhan, <u>Ajav S.</u> <u>Bangwal</u> , Konstantin Borodianskiy, Kamana K Mishra, Prabhakar Singh	Electrochi mica Acta	2023	12.3	263	Shyam lal College, University of Delhi	00	6.64

Books and Chapters in Edited Volumes/Books published, and papers in National /International conference Proceeding per teacher during the Year

Title of Book/Paper/ Book Chapter	Publisher	National/International	Year
Synthesis and Characterization of	American Institute of Physics	International	2020
Cathode material Pr _{0.6} Ba _{1.4} Co ₂ O _{6-δ} for			
IT-SOFC and its comparative study			
with PrBaCo ₂ O _{6-δ}			
Temperature dependence oxygen	Elsevier	International	2023
reduction activity of NiO thin film			

Conference/ Seminar/ Symposium/ Workshop/ Presentation Presentation/Attend Sr. National/ Topic Date Duration ed No. International/state /Resource Person International Virtual conference International MICTAS-2020 05-06th July 2020 1 Presentation International e-Conference on Advanced Functional Materials and 13-15th June 2020 2 International Optoelectronic Devices-ICAFMOD-Presentation 2020 International Conference on Condensed Matter & Applied 14-15th October 3 International Presentation Physics-ICC 2019 2019 International Conference on 22-25th February 4 International Functional Nanomaterials-ICFNM Presentation 2019 2019 Indian Materials Conclave and 30th 12-15th February 5 National Annual General Meeting of MRSI-Presentation 2019 MRSI 2019 National conference on Advanced 15-17th March 6 materials and nanotechnology-AMN-National Presentation 2018 2018

7	Interna	tional	International Conf Advances in Biologica and Materials Science World-ABSM	al Systems an ce in Nano-	Particiption	19 th -23 February 2		
1	Natio	onal	NEP 2020: Model Cu Physics	ırriculum in	Participation	8 th -9 th Feb: 2024		
2	International		Indo-Italian workshop on "solid oxide fuel cell: evolving trends of electrode materials		Resource Person	24-25 th March 2021		
3	National		Rietveld Refinement		Participation	22-24 th September 2020		
4	National		Experimental & Computational Tools for Materials Research-ECTMR 2020		Participation	01-08 th June 2020		
5	Natio	onal	Gian Course on "Fuel Generation and Batte		Participation	16-20 ^t September		
6	Natio	onal	LaTeX for Beginners thesis writing		Participation	06 th and 30 th 2018		
	Res	search P	rojects/ Innovation l	Projects (Maj	jor Grants/Resea	arch Collab	oratio	n)
Sl. No.	Title of the Project Funding Agency			Status/Output				
		R	 lesearch Guidance	Ph D/M Ph	oil)			
			No. of Ph.D. Studer			of M.Phil.	Studer	nts
Α	Awarded							
	ubmitted							
Und	ler Progress	s						
			istinctions/Recogniti	ons				
Year		Name of	the Fellowship/Award/ action/ Recognition	Designation	Name of the A Bodies /Asso		Interna	ntional/National/ State
1001	oi Awaru	Distii	Designation					
	2011		Designation larship for Higher	B.Sc.	DST INS	PIRE		National
2		Scho	Designation	B.Sc.	DST INS			National National
2	2011	Scho Ins New	Designation larship for Higher Education			PIRE	Ir	
2 2 2	2011 2016 2020	Scho Ins New Place	Designation larship for Higher Education pire Fellowship ton-Bhabha Ph.D. ement Fellowship s who receive recogn	Ph.D.	DST INS	PIRE	Ir	National
2 2 2	2011 2016 2020	Scho Ins New Place	Designation larship for Higher Education pire Fellowship ton-Bhabha Ph.D. ement Fellowship	Ph.D.	DST INS	PIRE		National
2 2 2 Incen State	2011 2016 2020 ative to the	Scho Ins New Place teacher	Designation larship for Higher Education pire Fellowship ton-Bhabha Ph.D. ement Fellowship s who receive recogn	Ph.D.	DST INS	PIRE l and DST		National
2 2 2 Incen State	2011 2016 2020 ative to the	Scho Ins New Place teacher	Designation larship for Higher Education pire Fellowship ton-Bhabha Ph.D. ement Fellowship s who receive recogn National	Ph.D.	DST INS	PIRE l and DST		National nternational
2 2 2 Incen State	2011 2016 2020 ative to the	Scho Ins New Place teacher	Designation larship for Higher Education pire Fellowship ton-Bhabha Ph.D. ement Fellowship s who receive recogn National	Ph.D. Ph.D. nition/award	DST INS	PIRE l and DST	nal	National nternational
2 2 2 Incen State Assoc	2011 2016 2020 ative to the ciation wit Members Any Oth	Scho Ins New Place teacher h the Pr hip er	Designation larship for Higher Education pire Fellowship ton-Bhabha Ph.D. ement Fellowship s who receive recogn National ofessional Bodies Name of	Ph.D. Ph.D. nition/award	DST INS	PIRE l and DST	nal	National nternational
2 2 2 Incen State Assoc	2011 2016 2020 ative to the ciation wit Members Any Oth	Scho Ins New Place teacher h the Pr hip er	Designation larship for Higher Education pire Fellowship ton-Bhabha Ph.D. ement Fellowship s who receive recogn National	Ph.D. Ph.D. nition/award	DST INS	PIRE l and DST	nal	National nternational

Workshops

Refresher/ Orientation Programme/ FDP / Other Specialised Courses								
S.No.	Topic	Name of the Organiser	Place	Duration and Year				
1	Advanced Research Methodology	T.L.C., Ramanujam College	Online	22 Sept 06 Oct. 2023				
2	Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education	T.L.C., Ramanujam College	Online	21 Aug 19 Sept. 2023				

Declaration

I do hereby solemnly declare that the information given and the statements made by me are correct and true to the best of my knowledge.

Dr. Ajay Shankar Bangwal

Signature with Full Name